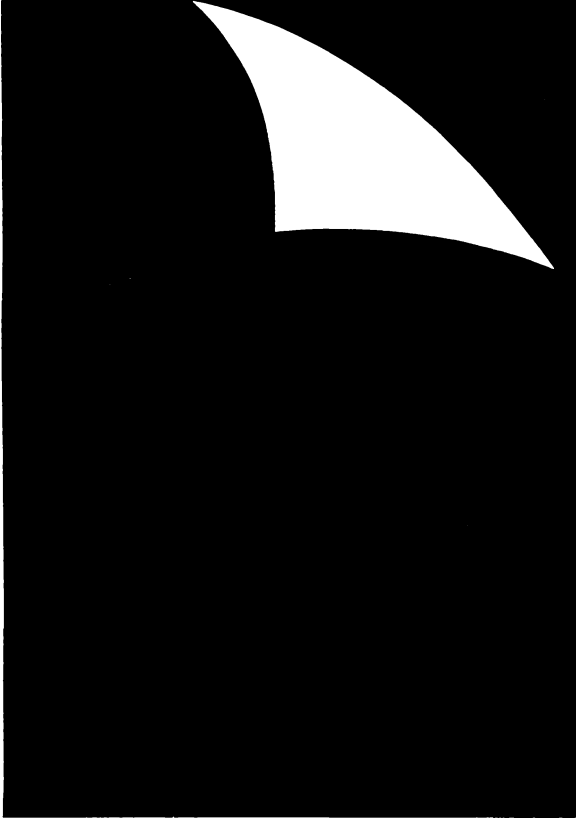




PUBLICATIONS FOR YOUR USE



EXTENSION DIVISION
VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY
OCTOBER, 1973
PUBLICATION 9



TO: Citizens of Virginia

Publications of the Extension Division are designed to provide the citizens of Virginia current information from Virginia Polytechnic Institute and State University's total resources. The publications are specifically designed to present the practical findings of research in a useful way for solving problems. In this way these findings may be applied to improving both the economy of the individual and the state and improving the family's standard of living.

The Extension publications of Virginia Polytechnic Institute and State University reflect the diversity of needs and are applicable to a variety of subject matter areas.

Individuals and groups are urged to secure publications from their Extension agents, who are located in all of the counties and most of the cities. They can tell you which publications will help solve which problem. They will point out portions of publications which apply to local conditions. Extension agents are members of the VPI&SU staff. They are qualified by education, training, and experience to help solve local problems in their respective fields. A publication is only one of the ways they can help you. They will welcome your questions and cooperation. Addresses of Extension offices are listed inside the back cover.

In ordering publications, it is well to remember they are paid for by taxes. By conserving your copies you are helping to save tax dollars. Keep the publications and share them whenever possible.

Printed on the following page are procedures devised to assure as fair and wide a distribution of publications as possible. We hope they will be helpful to you.

Sincerely,

W. E. Skelton

W. E. Skelton
Dean, Extension Division
and Director of Cooperative Extension

HOW TO OBTAIN EXTENSION PUBLICATIONS

The Extension Division of Virginia Polytechnic Institute and State University provides educational programs for the citizens of Virginia. Publications in support of these and other educational programs are available by following these procedures.

Citizens of Virginia should first consult the nearest Extension unit office located in all counties and most cities. The Extension agents have a supply of most publications listed herein or can secure the desired publication.

Organizations and groups in Virginia may secure a reference copy of publications from the Extension unit office.

Public libraries within the state are provided a single reference copy upon request for your use.

Vocational agriculture and home economics teachers within the state may obtain six copies of a single publication as reference material (by agreement with the State Department of Education). Other school teachers are asked to limit their request to a single reference copy. All teachers should secure reference copies from the Extension unit office.

Out-of-state residents, organizations, and libraries may obtain one copy of a single publication upon request.

The Extension Division of Virginia Tech does not maintain a publication mailing list for release of new publications. Such publications are announced through the local Extension unit office.

Publications in quantity, supply permitting, may be secured at a nominal cost by writing to the Distribution Office, Extension Division Publications, Hutcheson Hall, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061.

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AGRICULTURE AND NATURAL RESOURCES

Agronomic and Plant Sciences

FORAGES

Publications

- No. 3P 15 — Field Crop Varieties for Virginia
3P 36 — Your Fertilizer Use and Crop Record
3P 37 — Pearl Millet, Sudangrass, Sorghum-Sundangrass Hybrids
3P 106 — Lime Use Guides—For the Coastal Plains Region of Virginia
3P 107 — Lime Use Guides—For the Appalachian Region of Virginia
3P 108 — Lime Use Guides—For the Piedmont Region of Virginia
3P 135 — Grass Identification—A System for Recognition of Common Grasses
3P 146 — Alfalfa Production in Virginia
3P 156 — Forages for Year-Round Feeding
3P 231 — Horse Pastures in Virginia
3P 245 — Kill Johnsongrass
3P 251 — Poisonous Plants
3P 309 — Harvesting Corn for Silage
3P 343 — Corn \$\$\$\$ and Sense—Part I
3P 346 — Red Clover Production in Virginia
3P 394 — Corn Silage and Beef Cattle
3P 405 — Lime for Acid Soils—What To Use and How To Apply
3P 419 — No-Tillage Machinery and Seedbed Requirements
3P 429 — Soil Fertility Guides for the Piedmont Region of Virginia
3P 465 — Forages and the Cow and Calf Herd
3P 469 — Productive Pastures for Virginia

Bulletins

- No. 3B 136 — How Soil Reaction Affects the Supply of Plant Nutrients
3B 297 — Soil Fertility Guides—For the Coastal Plains Region of Virginia
3B 299 — Soil Fertility Guides—For the Appalachian Region of Virginia

Circulars

- No. 3C 446 — Portable Hay Feeding Rack
3C 492 — Hay and Grain Feeder for Ten Sheep
3C 624 — Feed Steers on Your Farm
3C 684 — Liming for Efficient Crop Production
3C 773 — Developing Seeps or Springs

Leaflets

- No. 3L 27 — Cattle Feeding Racks
3L 40 — Here's How To Seed That Pasture
3L 93 — Hay, Grain & Silage Feeder for 16 Sheep
3L 94 — Combination Hay & Grain Feeder for Lambs
3L 135 — Winter Pasture With Cover Crops
3L 178 — Alfalfa Seeding Suggestions
3L 213 — Worksheet for Calculating Annual Cash Wage, Value of Perquisites, and Earning per Hour for Farm Labor
3L 328 — The Control of Curled and Musk Thistle with 2, 4D

Record Books

- No. 3RB 17 — Farm Record Book, Part I, Expenses and Receipts
3RB 18 — Farm Record Book, Part II, Inventory
3RB 31 — Crop Record Book

Fact Sheets

- No. 3FS 4 — Farm Feed Preparation
3CS 4 — Control Insects of Corn, Small Grain, and Grain Sorghum
3CS 40 — Weed Control in Forage Crops
3CS 41 — Weed Control in Pastures
3CS 54 — Weed Control in Sorghum
3CS 110 — Curled and Musk Thistle Control
3CS 136 — Control Insects on Forage and Pasture Crops

FRUIT

Publications

- No. 3P 5 — Grape Growing in Virginia
3P 10 — Tree Fruits for the Home Garden
3P 32 — Grape Diseases and Their Control in Virginia
3P 35 — Fire Blight of Apple and Pear and Its Control
3P 46 — Spraying Home Fruit
3P 210 — Soils for Peach Trees
3P 219 — Virginia Spray Bulletin for Tree Fruits
3P 236 — Soils for Apple Trees
3P 278 — Budding and Grafting Apple Trees
3P 318 — Peach-Nectarine and Varieties for Virginia
3P 323 — Training and Pruning Apples, Pears, Cherries, Plums
3P 337 — Figs for Virginia
3P 339 — How To Pick Apples
3P 372 — Beekeeping in Virginia
3P 374 — Apple Diseases and Their Control in Virginia
3P 424 — Strawberry Outline for Virginia Growers
3P 434 — 4-H Strawberry Project Manual and Record
3P 463 — Establishment and Care of Intensive Apple Orchards
3P 475 — Diseases of Stone Fruit and Their Control in Virginia
3P 481 — Pruning Peach Trees
3P 531 — Apple Varieties for Virginia

Circulars

- No. 3C 783 — Cherries for Virginia
3C 784 — Plums for Virginia
3C 888 — Size Controlling Apple Rootstocks

Record Books

- No. 3RB 50 — Orchard Spray Record

Fact Sheets

- No. 3CS 42 — Weed Control in Apple, Pear, and Peach Orchards
3CS 43 — Weed Control in Small Fruits
3CS 62 — Powdery Mildew of Apple and Its Control

- 3CS 63 — Apple Rusts and Their Control in Virginia
- 3CS 64 — Apple Scab and Its Control
- 3CS 65 — Sooty Blotch, Fly Speck, and Brooks' Spot of Apple and Their Control
- 3CS 66 — Apple Rots and Their Control in Virginia
- 3CS 67 — Peach Leaf Curl
- 3CS 68 — Diseases of Plums and Prunes and Their Control in Virginia
- 3CS 69 — Cherry Diseases and Their Control in Virginia
- 3CS 70 — Strawberry Diseases and Their Control in Virginia
- 3CS 71 — Diseases of Raspberries and Blueberries in Virginia and Their Control
- 3CS 72 — General Spray Schedule for Control of Grape Diseases
- 3CS 78 — Powdery Mildew of Peach and Its Control
- 3CS 96 — Peach Scab and Its Control in Virginia
- 3CS 102 — Brown Rot of Peach and Nectarine and Its Control

GRAINS

Publications

- No. 3P 106 — Lime Use Guides—For the Coastal Plains Region of Virginia
- 3P 107 — Lime Use Guides—For the Appalachian Region of Virginia
- 3P 108 — Lime Use Guides—For the Piedmont Region of Virginia
- 3P 128 — Notes on Repelling Birds in Crops and Trees
- 3P 139 — Aeration for Maintaining Grain Quality
- 3P 179 — Small Grain Production, Part I
- 3P 343 — Corn \$\$\$\$ and Sense, Part I
- 3P 350 — Control Insect Pests in Farm-Stored Grain
- 3P 405 — Lime for Acid Soils—What To Use and How To Apply
- 3P 429 — Soil Fertility Guides for the Piedmont Region of Virginia
- 3P 509 — European Corn Borer in Field Corn in Virginia and Ways to Reduce Damage

Bulletins

- No. 3B 297 — Soil Fertility Guides—For the Coastal Plains Region of Virginia
- 3B 299 — Soil Fertility Guides—For the Appalachian Region of Virginia

Circulars

- No. 3C 624 — Feed Steers on Your Farm

Record Books

- No. 3RB 17 — Farm Record Book, Part I, Expenses and Receipts
- 3RB 18 — Farm Record Book, Part II, Inventory
- 3RB 19 — Temperature Chart—Fahrenheit Degrees
- 3RB 63 — Costs and Returns Guide for Crops in Virginia

Fact Sheets

- No. 3FS 4 — Farm Feed Preparation
3FS 61 — Aeration of Grain
3CS 4 — Insects of Corn, Small Grain, Grain Sorghum, and Forage Crops
3CS 36 — Corn Weed Control
3CS 37 — Weed Control in Cotton
3CS 38 — Weed Control in Orchardgrass for Seed
3CS 39 — Weed Control in Small Grains
3CS 54 — Weed Control in Sorghum
3CS 151 — Armyworms as a Pest of No-Till Corn

ORNAMENTALS AND TURF

Publications

- No. 3P 7 — Planning and Presenting a Garden Club Talk
3P 8 — Horticulture Programs for Garden Clubs
3P 40 — Terrariums
3P 46 — Spraying Home Fruit
3P 65 — Transplanting of Seedlings—4-H Leader's Demonstration Outline
3P 75 — Planting Seeds—4-H Leader's Demonstration Outline
3P 76 — Propagation by Cutting—4-H Leader's Demonstration Outline
3P 125 — Landscaping Slopes
3P 126 — Ornamental Fruit for the Home Grounds
3P 155 — Fertilizer Programs—Established Bentgrass Putting Greens
3P 218 — Dahlia Culture
3P 221 — Exhibiting and Judging Flowers
3P 222 — Ornamental Gourds
3P 238 — Design of the Home Grounds
3P 244 — Flowering Dogwood
3P 247 — American Holly
3P 248 — Boxwood in the Landscape
3P 294 — The Beginning of a Landscape Plan
3P 295 — Community Landscape Improvement Projects Preliminary Guide Sheet
3P 296 — An Introduction to Landscape Planning
3P 311 — Turfgrass Guide
3P 319 — Small Fruits in the Home Garden
3P 369 — Propagation by Air Layering
3P 370 — Euonymus Scale, *Unaspis Euonymi*
3P 371 — Boxelder Bugs
3P 375 — Home Care of Poinsettias
3P 379 — Red Spider Mites, Red Mites, or Plant Mites
3P 381 — How Plants Grow Under Light
3P 382 — Chrysanthemums for the Home
3P 383 — Geraniums for the Home
3P 387 — The Maple Bladder-Gall Mite
3P 395 — Protecting and Repairing Trees During Construction
3P 455 — Pruning Ornamental Trees
3P 456 — Fertilizing and Mulching Trees and Shrubs
3P 457 — Pruning Shrubs
3P 471 — Insect and Mite Pests of Lawns and Turfgrass

- 3P 479 — Plants—How They Improve Our Environment
- 3P 482 — Natural Control of Insects in Your Home and Garden
- 3P 487 — A Gothic Greenhouse for Town and Country Homes

Circulars

- No. 3C 775 — Making a Fruit and Seed Collection
- 3C 798 — Making a Landscape Model

Leaflets

- No. 3L 311 — Teaching Aid—4-H Community Beautification—Know Your Trees and Shrubs
- 3L 312 — Teaching Aid—4-H Community Beautification—Simple Tree Surgery

Record Books

- No. 3RB 22 — (Unit I, II, III)—4-H Community Beautification

Fact Sheets

- No. 3CS 44 — Control of Weeds Around Woody Plants
- 3CS 45 — Lawn Weed Control
- 3CS 49 — Chrysanthemum Septoria Leaf Spot
- 3CS 50 — Herbicides for Woody Nursery Stock
- 3CS 57 — Fairy Rings
- 3CS 59 — Lawn Diseases—Stripe Smut
- 3CS 61 — Lawn Diseases—Slime Molds
- 3CS 74 — Helminthosporium Blight (Netblotch) of Fescues
- 3CS 76 — Guide for Chemical Control of Turfgrass Diseases and Turfgrass Weeds
- 3CS 85 — Rose Blackspot
- 3CS 86 — Powdery Mildew of Roses
- 3CS 87 — Gladiolus Corm Rot
- 3CS 88 — Fire Blight of Ornamentals
- 3CS 89 — Scab of Crab Apple and Pyracantha
- 3CS 90 — Phytophthora Root Rots and Wilt of Rhododendron, Azalea and Related Ornamentals
- 3CS 91 — Hemlock Twig Rust
- 3CS 95 — Fusarium Wilt of Mimosa
- 3CS 100 — Fire or Botrytis Blight of Tulips
- 3CS 103 — Dutch Elm Disease
- 3CS 104 — Nematode Control in Home Grounds
- 3CS 105 — Nematodes in Nurseries
- 3CS 106 — Cultural Control of Shade Tree Diseases
- 3CS 107 — Septoria Leaf Spot of Dogwood
- 3CS 108 — Ornamental and Flower Diseases—Chrysanthemum Rust
- 3CS 109 — Dogwood Spot Anthracnose
- 3CS 111 — Hollyhock Rust
- 3CS 112 — Helminthosporium Leaf Spot
- 3CS 113 — Powdery Mildew of Turf
- 3CS 114 — Pythium Blight of Turf
- 3CS 115 — Fusarium Patch of Turf
- 3CS 116 — Oviposition Petal Blight of Azalea
- 3CS 117 — Verticillium Wilt of Shade Trees
- 3CS 118 — Juniper Twig Blight
- 3CS 119 — Azalea Leaf and Flower Gall
- 3CS 120 — Peony Botrytis Blight
- 3CS 124 — Insect Pests of Christmas Trees
- 3CS 125 — Insect Pests of Commercial Turfgrass

- 3CS 128 — Rusts of Ornamentals
- 3CS 129 — Chemical Injuries of Shade Trees
- 3CS 132 — Sclerotinia Dollar Spot
- 3CS 133 — Rhizoctonia Brown Patch
- 3CS 134 — Rust
- 3CS 138 — Foliar Diseases of Shade Trees
- 3CS 140 — Endothia Canker of Live Oak in Virginia
- 3CS 142 — Insect Pests of Ornamentals and Lawns Around the Home
- 3CS 143 — Insects of Nursery Crops and Shade Trees
- 3CS 152 — Control of Diseases of Flowers, Ground Cover Plants and Woody Ornamentals in the Home Yard

PEANUTS

Publications

- No. 3P 269 — Curing Virginia Peanuts

Circulars

- No. 3C 917 — Sharing the Costs of Drying Peanuts on Rented Farms

Fact Sheets

- No. 3CS 27 — Virginia Peanut Insect Control Recommendations
- 3CS 153 — Virginia Peanut Disease Control Recommendations
- 3CS 154 — Peanut Production Guide for Virginia

SOYBEANS

Publications

- No. 3P 483 — Soybean Production, Part I

Fact Sheets

- No. 3CS 35 — Soybean Weed Control
- 3CS 137 — Control Soybean Insects

TOBACCO

Publications

- No. 3P 15 — Field Crop Varieties for Virginia
- 3P 106 — Lime Use Guides—For the Coastal Plains Region of Virginia
- 3P 107 — Lime Use Guides—For the Appalachian Region of Virginia
- 3P 108 — Lime Use Guides—For the Piedmont Region of Virginia
- 3P 197 — Profitable Production of Fire-Cured Tobacco
- 3P 281 — Selecting a Burley Tobacco Variety
- 3P 293 — Burley Tobacco—Transplanting to Harvest
- 3P 345 — Virginia Tobacco Insect Control Recommendations
- 3P 355 — Fertilizing Flue-Cured Tobacco
- 3P 373 — Topping and Suckering Burley Tobacco
- 3P 393 — Crop Rotations for Flue-Cured Tobacco
- 3P 416 — Harvesting, Curing, and Marketing Burley Tobacco
- 3P 429 — Soil Fertility Guide for the Piedmont Region of Virginia

- 3P 459 — Curing Bright Tobacco in Bulk Barns
 3P 523 — Exhibiting Burley Tobacco

Bulletins

- No. 3B 136 — How Soil Reaction Affects the Supply of Plant Nutrients

Record Books

- No. 3RB 17 — Farm Record Book, Part I, Expenses and Receipts
 3RB 18 — Farm Record Book, Part II, Inventory
 3RB 31 — Crop Record Book

Circulars

- No. 3C 485 — Tobacco Press

Fact Sheets

- No. 3CS 5 — Control of Stored Tobacco Insects
 3CS 53 — Weed Control in Tobacco
 3CS 73 — Nematode Control in Tobacco
 3CS 79 — The Osborne Cyst Nematode—A Serious Pest in Tobacco

VEGETABLES

Publications

- No. 3P 44 — Vegetable Gardening in Virginia
 3P 72 — Vegetable Production Series—Green Peas
 3P 129 — Vegetable Production Series—Asparagus
 3P 144 — Vegetable Production Series—Potatoes
 3P 153 — Vegetable Production Series—Collards, Kale, Spinach, and Upland Cress
 3P 154 — Tomato Production in Plastic Greenhouses
 3P 162 — Vegetable Production Series—Cabbage and Broccoli
 3P 226 — Starting Early Plants
 3P 232 — Production of Trellised Tomatoes in Southwest Virginia
 3P 240 — Vegetable Production Series—Sweet Corn
 3P 241 — Vegetable Production Series—Tomatoes
 3P 327 — Virginia Insect Control Recommendations for Commercial Vegetable Growers
 3P 333 — Vegetable Production Series—Sweet Potatoes
 3P 372 — Beekeeping in Virginia
 3P 376 — Vegetable Production Series—Onions
 3P 377 — Recommended Vegetable Varieties for Virginia
 3P 392 — Virginia Insect Control Recommendations for Home Vegetable Gardens
 3P 420 — Production of Caged Tomatoes
 3P 421 — Vegetable Production Series—Vine Crop Production in Virginia—Cucumbers, Muskmelons, Squash, Watermelons
 3P 427 — Vegetable Production Series—Growing Irish Potatoes for Potato Chips in Virginia
 3P 541 — Raising Vegetables in Mini-Gardens
 3P 542 — Production of Early Season Ground-Grown Tomatoes

Circulars

No. 3C 1048 — Vegetable Production Series—Southern Peas

Leaflets

No. 3L 291 — Sprout Inhibitors for Irish Potatoes

Record Books

No. 3RB 91 — 4-H Vegetable Gardening for Beginners

Fact Sheets

- No. 3CS 26 — Pests of Greenhouse Tomatoes
3CS 80 — Bacterial Spot of Peppers
3CS 81 — Cucurbit Disease Control
3CS 82 — Early Blight of Tomatoes
3CS 83 — Root and Stem Rots of Beans
3CS 84 — Blossom End Rot of Tomatoes
3CS 94 — Nematode Control in Vegetable Gardens
3CS 97 — Nematode Control in Vegetable Crops
3CS 101 — Weed Control In Vegetable Crops

ANIMAL AND VETERINARY SCIENCES

BEEF

Publications

- No. 3P 67 — Introductory 4-H Livestock Judging Guide
3P 141 — Calving Management for Virginia
3P 163 — Beef Cattle Corrals
3P 181 — Developing and Performance Testing Young Beef Bulls
3P 312 — Wintering Calves in Virginia
3P 386 — Crossbreeding Beef Cattle
3P 394 — Corn Silage and Beef Cattle
3P 411 — Biology and Control Methods for External Parasites of Beef and Dairy Cattle
3P 462 — Beef Cattle Fitting and Showing
3P 465 — Forages and the Cow and Calf Herd
3P 480 — Beef Breeding Guide
3P 514 — Fattening Steers on Silage in Virginia

Bulletins

No. 3B 283 — Beef Cattle Performance Testing

Circulars

No. 3C 624 — Feed Steers on Your Farm

Leaflets

- No. 3L 27 — Cattle Feeding Racks
3L 175 — Commercial Breeder's Program—A Performance Testing Program for Commercial Beef Breeders
3L 310 — Urea in Beef Cattle Feeds

Record Books

- No. 3RB 20 — 4-H Club Livestock Record Book
3RB 73 — Costs and Returns Guide for Beef in Virginia
3RB 84 — 4-H Beef Steer, Guide and Record, Unit I

3RB 86 — 4-H Livestock Advancement Project,
Guide and Record

Fact Sheets

- No. 3FS 1 — Farm Yard Lighting Hints
3FS 2 — Mechanical Cattle Feeding
3CS 6 — External Parasites of Beef Cattle
3CS 149 — Cattle Grub Control on Beef Cattle
Using the Pour-on Method

DAIRY

Publications

- No. 3P 1 — Artificial Lighting for Milking Facilities
3P 146 — Alfalfa Production in Virginia
3P 411 — Biology and Control Methods for Ex-
ternal Parasites of Beef and Dairy Cat-
tle
3P 470 — Value of Milk Base in Virginia

Record Books

- No. 3RB 66 — Dairy Herd Record Book
3RB 72 — Costs and Returns Guide for Dairy in
Virginia
3RB 90 — Virginia's Dairy Youth Opportunities
3RB 92 — Dairy Beef Record Book
3RB 96 — Dairy Goat Record Book

Fact Sheets

- No. 3FS 1 — Farm Yard Lighting Hints
3FS 5 — Comfort in the Milking Parlor with
Infared Heat Lamps
3CS 7 — External Parasites of Dairy Cattle
3CS 13 — Fly Control in Swine and Dairy Barns

Guidelines

- No. 3DG 001 — Virginia Dairy Situation and Trends
3DG 25 — Improving Fertility in Dairy Cattle
3DG 79 — Dairy Sire Selection
3DG 80 — A Practical Dairy Cattle Breeding
Program
3DG 103A — Protein Supplement for Lactating
Cows
3DG 104 — Low Cost Rations for More Milk Dol-
lars
3DG 126 — Dairymen Should Consider High-En-
ergy Feeds
3DG 127 — Using Wheat or Soybeans in the
Dairy Ration
3DG 128 — High Moisture Corn for Dairy Cattle
3DG 151 — Adding Urea to Corn Silage
3DG 152 — Barley for Silage in Virginia
3DG 153 — Forage Testing—A Tool For Improv-
ed Feeding of Dairy Cows
3DG 155 — Small Grain for Silage
3DG 225 — I.B.R. and B.V.D.
3DG 250 — Emergency Preparedness Tips for the
Dairyman
3DG 275 — Recommended Milking Procedure —
What, How, Why
3DG 276 — The Virginia Mastitis Prevention and
Control Program
3DG 278 — So You Have a High Leucocyte Count
What Now?
3DG 279 — Mastitis Facts for Dairymen
3DG 285 — Developing Dairy Herd Replacements
3DG 287 — Dehorning Dairy Cattle

- 3DG 290 — Holstein Steers and Dairy Feed \$
 3DG 375 — Virginia Dairy Herd Improvement
 Association Program Summary
 3DG 400 — Why Butterfat Tests Vary
 3DG 425 — Controlling Off-Flavors in Raw Milk
 3DG 475 — Clipping Cows in Milk
 3DG 477 — Control of Psychrophilic Bacteria in
 Raw Milk Supplies
 3DG 478 — Cleaning and Sanitizing Milking
 Equipment
 3DG 479 — Treatment of Rubber Milking Ma-
 chine Parts
 3DG 480 — Dairy Cleaners
 3DG 500 — Care of Milk on the Family Farm
 3DG 501 — Store Milk Products at Home
 3DG 502 — Homemade Frozen Dairy Desserts
 3DG 503 — Making Cottage Cheese in the Home
 3DG 504 — Homemade Cultured Milk Products
 3DG 525 — Estimating the Cost of Producing
 Grade A Milk
 3DG 675 — Exhibitor's Show Box
 3DG 676 — Your Animal Won't Win Without
 Your Help
 3DG 677 — How To Make a Rope Halter
 3DG 678 — Plan for Calf Blanket—Senior Size

HORSE

Publications

- No. 3P 147 — Horseman's Handbook—Barns and Re-
 lated Equipment
 3P 458 — Internal Parasites—Their Control in the
 Horse
 3P 558 — Trail Riding—4-H Horse and Pony Pro-
 ject—Guide for Adult Leaders

Record Books

- No. 3RB 53 — 4-H Light Horse-Pony Project Record
 3RB 97 — 4-H Horse Riding Project, Novice

Fact Sheets

- No. 3CS 10 — External Parasites of Horses

POULTRY

Publications

- No. 3P 3 — Chicken and Turkey in Delicious Ways
 3P 47 — Poultry and Egg Judging—Instructions
 for 4-H Club Members
 3P 205 — Beginning of Life
 3P 225 — Labor vs. Mechanization in Producing
 and Processing Table Eggs
 3P 271 — Broiler-Breeder Management
 3P 276 — Management of Layers and Preservation
 of Egg Quality
 3P 287 — Chick-N-Que
 3P 290 — Feather Picking and Cannibalism
 3P 302 — Virginia Turkey Management
 3P 308 — Commercial Layer Replacement
 3P 439 — Egg Yolk and Shell Mottling
 3P 447 — Food, Hands, and Bacteria
 3P 521 — Some Questions and Answers Concern-
 ing Livestock and Poultry Waste Dis-
 posal

Circulars

- No. 3C 1055 — What Can Be Expected From a Good Commercial Egg Enterprise in Virginia

Leaflets

- No. 3L 307 — Factors Affecting Exterior and Interior Quality of Eggs

Record Books

- No. 3RB 40 — 4-H Club Poultry Record Book for Brooding and Rearing
3RB 41 — 4-H Club Poultry Record Book for the the Laying or Breeding Flock
3RB 45 — Poultry Identification
3RB 46 — 4-H Club Poultry Record Book for the Chick-N-Que Project
3RB 74 — Costs and Returns Guide for Poultry in Virginia

Fact Sheets

- No. 3CS 11 — External Parasites of Poultry
3CS 14 — Fly Control for Poultry Producers

SHEEP

Publications

- No. 3P 67 — Introductory 4-H Livestock Judging Guide
3P 328 — Lamb Feeding in Virginia
3P 365 — Sheep Management Schedule

Leaflets

- No. 3L 93 — Hay, Grain, and Silage Feeder for 16 Sheep
3L 94 — Combination Hay and Grain Feeder for Lambs
3L 166 — Foot Rot in Sheep
3L 185 — Sheep Chair
3L 232 — Internal Parasites of Sheep

Record Books

- No. 3RB 17 — Farm Record Book, Part I, Expenses and Receipts
3RB 18 — Farm Record Book, Part II, Inventory
3RB 75 — Costs and Returns Guide for Sheep in Virginia
3RB 82 — 4-H Market Lamb Guide and Record
3RB 89 — Ewe Flock Guide and Record

Fact Sheets

- No. 3CS 9 — External Parasites of Sheep

SMALL ANIMALS

Circulars

- No. 3C 641 — Steps in Rabbit Dressing

Leaflets

- No. 3L 35 — Two Unit Rabbit Hutch

Record Books

- No. 3RB 49 — 4-H Club Record Book for the Rabbit Project

Fact Sheets

No. 3CS 12 — External Parasites of Dogs and Cats

SWINE

Publications

No. 3P 67 — Introductory 4-H Livestock Judging Guide

3P 217 — Internal Parasites of Swine

3P 223 — Curing Ham—Virginia Style

3P 230 — Virginia Swine Nutrition

3P 310 — Guarded Management for Swine Disease Prevention

3P 385 — Swine Management and Production Scheduling for 3 and 4 Sow Group Farrowing Systems

3P 562 — 4-H Swine Breeding Guide

Record Books

No. 3RB 17 — Farm Record Book, Part I, Expenses and Receipts

3RB 18 — Farm Record Book, Part II, Inventory

3RB 20 — 4-H Club Livestock Record Book

3RB 76 — Costs and Returns Guide for Hogs in Virginia

3BR 83 — 4-H Market Hog Guide and Record

3RB 93 — 4-H Feeder Pig Project

3RB 94 — 4-H Breeding Gilt Project

Fact Sheets

No. 3FS 1 — Farm Yard Lighting Hints

3FS 4 — Farm Feed Preparation

3FS 33 — Grounding Electrical Service Entrances

3FS 61 — Aeration of Grain

3CS 8 — External Parasites of Swine

3CS 13 — Fly Control in Swine and Dairy Barns

Basic Sciences

The departments in the Basic Sciences Division include Agricultural Economics, Agricultural Engineering, Entomology, and Food Science. Most of the publications prepared by these departments contribute to, and are listed under, other industry or special interest areas identified in this publication. The specific materials listed here under Basic Sciences are intended for broader application than any single industry or special interest area.

A — AGRICULTURAL MARKETING

Publications

No. 3P 71-1 — Economic Feasibility Analysis Outlines for Livestock Marketing and Slaughter Processing Firms

B — ENTOMOLOGY

Publications

No. 3P 372 — Beekeeping in Virginia

Fact Sheets

No. 3CS 141 — Virginia Insect Control Guide

C — FARM BUSINESS MANAGEMENT

Publications

- No. 3P 288 — 5 Functions of Management
3P 414 — What Will Become of Your Property

D — FOOD SCIENCE

Publications

- No. 3P 223 — Curing Ham—Virginia Style
3P 447 — Food, Hands, and Bacteria

E — SOIL SCIENCES

Publications

- No. 3P 2 — Soils for Homesites
3P 449 — Can You Afford Not To Look at Soils
3P 490 — Soil Acidity: Nature, Causes, Effects, Remedy
3P 504 — Soil—Virginia's Basic Natural Resource

F — AGRICULTURAL ENGINEERING

Publications

- No. 3P 510 — Farm Machinery Performance and Costs
3P 535 — The Slow Moving Vehicle

Fact Sheets

- No. 3FS 34 — Grounding Electrical Equipment
3FS 35 — Grounding Fixed Electrical Equipment
3FS 36 — Electric Wires—Sizes for Safety and Efficiency
3FS 50 — Electric Baseboard Heaters
3FS 52 — Electric Wall and Portable Heaters
3FS 53 — Insulation
3FS 56 — Electric Heat Pump
3FS 57 — Electrical Wiring Materials—Wires and Cable for Use in Wet or Damp Locations
3FS 58 — Electrical Wiring Materials—Devices and Fittings For Use in Wet or Damp Locations

NATURAL RESOURCE CONSERVATION

Publications

- No. 3P 20 — The Wonder of Water
3P 22 — Help Keep Our Land Beautiful
3P 23 — The Story of Land
3P 25 — Food for the Land
3P 38 — Conservation Pledge
3P 228 — Working Together for a Liveable Land
3P 479 — Plants—How They Improve Our Environment
3P 504 — Soil—Virginia's Basic Natural Resource
3P 527 — The Earth—Our Home In Space

Record Books

- No. 3RB 34 — Soil and Water Conservation Record Book

FORESTRY AND WILDLIFE RESOURCES

FOREST INDUSTRY

Publications

- No. 3P 21 — Making a Home for Wildlife on the Land
3P 26 — Wood Duck Nest Box
3P 27 — Bluebird House

- 3P 29 — Plans for Attracting Birds
 3P 30 — Wren Nesting Boxes
 3P 50 — Forestry In Virginia
 3P 66 — Tree Identification Contest #I—Tide-
 water and Eastern Piedmont Counties,
 Virginia
 3P 99 — Martin Colony Bird House
 3P 102 — Farm Trolley Wildbird Feeders
 3P 103 — Suet and Peanut Butter Bird Feeders
 3P 104 — Weathercock Bird Feeder or Food
 House
 3P 105 — Miscellaneous Types of Bird Equipment
 3P 127 — Virginia Wildlife Resources—The Pur-
 ple Grackle
 3P 128 — Notes on Repelling Birds in Crops and
 Trees
 3P 159 — The European Starling
 3P 168 — Virginia Wildlife Conservation Notes—
 The Eastern Gray Squirrel
 3P 183 — What We Get From Forest Land
 3P 184 — Edible Fruits of Forest Trees
 3P 185 — Why Leaves Change Color
 3P 186 — How a Tree Grows
 3P 187 — Forests and Water
 3P 188 — Forests and Wildlife
 3P 189 — Enemies of the Forest
 3P 190 — How Our Forests Serve Us
 3P 191 — Making Paper From Trees
 3P 192 — Forests and the Natural Water Cycle
 3P 193 — State Trees
 3P 194 — Logging and the Production of Lumber
 3P 195 — Wood—The Material of a Thousand
 Uses
 3P 202 — Leaves and Fruit of Virginia Forest
 Trees
 3P 208 — Key to Tree Identification Contest #1
 3P 209 — Tree Farming in Virginia
 3P 273 — Virginia Ferns and Fern Allies
 3P 277 — Tree Volume—Basal Area Ratio Tables
 3P 283 — Live Trapping Objectionable Animals
 3P 285 — The Bobwhite Quail
 3P 298 — Virginia Trees—A Check List of the
 More Common Species
 3P 324 — Tree Identification Contest #2—Wes-
 tern Piedmont and Mountain Counties,
 Virginia
 3P 400 — Key to Tree Identification Contest #2
 Western Piedmont and Mountain Coun-
 ties, Virginia
 3P 403 — Forest Management Evaluation in Vir-
 ginia
 3P 466 — Preparation of Finished Maps for Use
 in Forestry
 3P 488 — Flicker-Woodpecker Houses
 3P 500 — Wildlife Management Decisions: An Aid
 3P 501 — Regression Equations for the Mesavage
 and Girard Form-Class Volume Tables
 3P 507 — Growing Christmas Trees in Virginia
 3P 511 — Forest and the Environment
 3P 560 — How To Use the VPI&SU Tree and Log
 Scale Stick
 3P 564 — What To Look for in Growing Trees
 3P 565 — How Trees Get Their Names

Leaflets

- No. 3L 286 — Shaping Christmas Trees for Quality —
 Pines

3L 305 — Shaping Christmas Trees for Quality—
Spruce and Fir

Record Books

- No. 3RB 25 — Forest Establishment I, Open Land
or Spot Planting
3RB 28 — Forest Appreciation I, Junior Intro-
duction to Forestry
3RB 29 — Forest Appreciation I, Introduction
to Forestry
3RB 39 — Forest Appreciation II, Individual
Tree Studies
3RB 44 — Forest Appreciation III, Tree Identifi-
cation
3RB 54 — Forest Measurements, Unit I, Timber
Estimating and Log Scaling
3RB 55 — 4-H Wildlife Project I
3RB 57 — 4-H Project and Record Book, Forest
Management III, Thinning
3RB 58 — 4-H Project and Record Book, Forest
Management II, Timber Stand Im-
provement
3RB 61 — 4-H Project and Record Book, Forest
Establishment III, Christmas Tree
Planting
3RB 65 — Forest Appreciation VI, Readings in
Forest Conservation
3RB 68 — Your Surroundings, Conservation I
3RB 71 — 4-H Wildlife Project, Unit II

Fact Sheets

- No. 3CS 52 — Weed Control in X-mas Tree Plantings
3CS 130 — Forest Tree Diseases of Virginia
(Conifers)
3CS 135 — Forest Tree Diseases of Virginia
(Hardwood)

COMMUNITY RESOURCE DEVELOPMENT

Publications

- No. 3P 53 — Financing Your College Education
3P 167 — Making Meetings Effective
3P 344 — Simplifying Parliamentary Procedure
3P 367 — Committees—How To Select and Use
Them
3P 418 — Virginia's Youth Face the Future
3P 486 — Youth in Action Improving Their Com-
munities
3P 561 — Development of Rural Areas

Circulars

- No. 3C 989 — Meeting Agenda and Check Sheet
3C 990 — Total Resource Development in Vir-
ginia—A Guide for Planning and Ac-
tion

FAMILY RESOURCES

GENERAL

Publications

- No. 3P 42 — Focus on Family Resources

Bulletins

- No. 3B 308 — Virginia Home Economics Focus

CLOTHING AND TEXTILES

Publications

- No. 3P 19 — Accent on Clothing, Leader's Guide
3P 78 — School Clothes and Leisure Wear (4-H Project)
3P 80 — Wool Garments (4-H Project)
3P 81 — Tailored Garments (4-H Project)
3P 82 — A 4-H Clothing Leader's Guide—4-H Members Clothing Construction Project
3P 109 — Little Virginia Miss-Unit II (4-H Project)
3P 110 — Little Virginia Miss-Unit I (4-H Project)
3P 111 — Little Virginia Miss—Leader's Guide (4-H Clothing Project)
3P 112 — The Total You—4-H Grooming Project
3P 113 — Hems
3P 115 — Buttonholes
3P 116 — Planning to Buy Coats and Suits
3P 117 — Planning to Buy Foundation Garments
3P 118 — Wardrobe Building
3P 119 — Selecting Men's Shirts
3P 120 — Proper Fit for a Garment
3P 121 — Tailoring
3P 122 — Your Sewing Machine—What It Will Do
3P 123 — Pressing Mit
3P 124 — Selecting Becoming Hat Styles
3P 142 — Accent on Clothing—4-H Girls Selection Project
3P 143 — Accent on Clothing—4-H Boys Selection Project
3P 242 — Coordinating Fabrics and Patterns
3P 250 — Pattern Alteration
3P 262 — Tailor's Ham
3P 263 — Line in Clothing
3P 265 — Measurement Chart for Selecting Sizes
3P 286 — A Smooth Look in Sleeves
3P 300 — Men, Plan a Useful Wardrobe
3P 301 — Shopping for the Men's Wardrobe
3P 306 — Getting Ready To Sew—Part I—Equipment and Supplies
3P 307 — Tips for Trips
3P 321 — Color in Clothing
3P 366 — Little Virginia Miss-Unit III (4-H Project)
3P 390 — Clothing Communicates
3P 391 — Accent on Clothing Accessories
3P 491 — Always Attractive in Your Elderly Years
3P 492 — Clothing in Elderly Years
3P 506 — Tie Tactics
3P 551 — Guide for Sewing Lingerie
3P 552 — Special Fabric Finishes
3P 553 — Fabric Construction
3P 559 — Textile Fibers—Names, Properties, and Care
3P 563 — Knits Are Sew Easy

Bulletins

- No. 3B 310 — The Total You—Leader's Guide, 4-H Grooming Project

FAMILY DEVELOPMENT

Publications

- No. 3P 34 — You and Tots, Unit I (4-H Project)
3P 83 — Development of Responsibility

- 3P 84 — New Age for Old Age
- 3P 85 — Family Communication
- 3P 86 — Woman's Role Today
- 3P 97 — The Family Life Cycle
- 3P 98 — Test Your Knowledge About Infants
- 3P 131 — Your Baby's Emotions
- 3P 292 — You and Tots, Unit II (4-H Project)
- 3P 356 — Creative Crafts for Children
- 3P 410 — Discipline—Wise or Otherwise

FOOD AND NUTRITION

Publications

- No. 3P 3 — Chicken and Turkey in Delicious Ways
- 3P 12 — Community Dinners for Fun and Profit
- 3P 14 — Buying Food
- 3P 17 — Dinnertime with Virginia Teens
- 3P 43 — Me and My Food
- 3P 45 — Vitamins
- 3P 79 — Breakfast—The Best Start
- 3P 88 — Lunches To Go and Grow On
- 3P 137 — Building Your Health
- 3P 149 — Outdoor Meals
- 3P 158 — Food Additives
- 3P 165 — Salad Styles for Every Meal
- 3P 166 — Food Needs for Everybody
- 3P 223 — Curing Ham—Virginia Style
- 3P 227 — 4-H Senior Health
- 3P 243 — Food for Older Folks
- 3P 256 — Making Family Meals More Attractive
- 3P 326 — Food for Young Children
- 3P 361 — Low Calorie Meals
- 3P 363 — Meal Planning
- 3P 364 — Cool Summer Meals
- 3P 428 — Adapting Food Intake to Individual Needs
- 3P 430 — Breads and Cereals
- 3P 450 — A Look at Breakfast
- 3P 536 — Fruits and Vegetables, Selection and Preparation

Bulletins

- No. 3B 208 — Today's Girl

Record Books

- No. 3RB 32 — 4-H Health Record Book

HOME FURNISHINGS

Publications

- No. 3P 4 — Design for Accessories
- 3P 18 — Furniture Arrangement
- 3P 41 — Make a Hassock
- 3P 48 — Furnishings for Young, Young Moderns
- 3P 49 — Your Family Room
- 3P 60 — How To Fold the Fitted Sheet
- 3P 74 — Teaching Good Design
- 3P 89 — Window Treatment—Kinds and Fabrics
- 3P 90 — Cut-Outs To Help You in Arranging Your Bedroom, Living Room, and Dining Room
- 3P 91 — Design in Home Furnishings
- 3P 92 — Choosing Drapery Hardware
- 3P 93 — Know Before You Buy (Quiz)
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- 3P 95 — Your Home Furnishings Study Plan
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- 3P 351 — Pads, Pillows, and Cushions
- 3P 352 — Your Furnishings, Wake Up Your Room
- 3P 353 — Your Home Furnishings Study Plan—
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- 3P 357 — How To Make Lined and Unlined Dra-
peries
- 3P 396 — Basket Weaving
- 3P 397 — Textile Painting
- 3P 398 — The Braided Rug
- 3P 402 — Buying Mattresses for Comfort
- 3P 404 — The Stenciled Piece
- 3P 494 — Textile Painting and Design
- 3P 495 — Live With Color
- 3P 497 — Splint Seats for Chairs
- 3P 498 — Hooked Rugs
- 3P 502 — 4-H Home Lighting
- 3P 505 — How To Upholster Overstuffed and Oc-
casional Chairs
- 3P 513 — Making Lamps
- 3P 528 — 4-H Project Leader's Guide for Home
Lighting
- 3P 529 — Making Lampshades

Leaflets

- No. 3L 33 — Seat Weaving with Fibre

Record Books

- No. 3RB 35 — Your Furnishings Record Book
- 3RB 95 — Your Environment I, II, and III

MANAGEMENT AND HOUSING

Publications

- No. 3P 31 — Managing Your Money—A Family Plan
- 3P 57 — Housecleaning Handbook for Young
Homemakers
- 3P 58 — Choosing and Using Your Household
Range
- 3P 59 — Create Your Own Business Center
- 3P 61 — Longer Life for Your Rugs and Uphols-
tery
- 3P 62 — Modern Floor Care—Waxes and Main-
tenance
- 3P 196 — Choosing and Using Your Automatic
Dishwasher
- 3P 198 — Choosing Floors
- 3P 199 — Planning Family Spending
- 3P 212 — Family Business Papers

- 3P 213 — Families Focus on Life Insurance
 3P 214 — Families Focus on Property and Personal Liability Insurance
 3P 215 — Families Focus on Health Insurance
 3P 216 — Families Focus on Automobile Insurance
 3P 220 — Home Sewing Centers
 3P 224 — Interior Paints
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 3P 556 — Moving
 3P 569 — Leaks in Spending
 3P 570 — Be a Responsible Consumer

Circulars

- No. 3C 553 — Transparent Finishes for Wood Floors
- 3C 936 — Choosing and Using Your Automatic Washer
- 3C 937 — Choosing and Using Your Refrigerator
- 3C 938 — Choosing and Using Your Automatic Clothes Dryer
- 3C 956 — Household Linen Storage
- 3C 962 — Doors
- 3C 970 — Pre-Teens Manage Money (for parents)
- 3C 1065 — House Planning Worksheet

Leaflets

- No. 3L 180 — The Lazy Susan Cleaning Closet
- 3L 201 — Iron Your Clothes the Easy Way
- 3L 203 — Wash Your Clothes the Easy Way

Record Books

- No. 3RB 62 — Family Account Book
- 3RB 77 — Cash and Stuff, Unit I
- 3RB 78 — The Game of Cash and Stuff, Unit II

Fact Sheets

- No. 3FS 11 — The Trash Compactor
- 3FS 13 — The Portable Microwave Oven

4-H YOUTH DEVELOPMENT

Other 4-H materials are listed under the special interest or industry areas in this publication.

Publications

- No. 3P 6 — Step Out For Virginia Through 4-H Share-The-Fun
- 3P 53 — Financing Your College Education
- 3P 56 — 4-H Demonstrations and Illustrated Talks with Debbie and Tommie (Junior 4-H Members)
- 3P 180 — 4-H Leader's Handbook
- 3P 274 — A Guide for 4-H Club Officers
- 3P 322 — Demonstrations and Illustrated Talks for Senior 4-H Members
- 3P 418 — The Working World of the 70's—Opportunity and Challenge
- 3P 445 — The Flag of the United States
- 3P 451 — Let's Start a 4-H Business
- 3P 452 — Let's Start a 4-H Business, Leader's Guide
- 3P 508 — The New 4-H Roadside Sign
- 3P 519 — Introduction to 4-H
- 3P 567 — Virginia 4-H Projects

Circulars

- No. 3C 756 — International 4-H Farm Youth Exchange
- 3C 793 — Local-Distant 4-H Tours
- 3C 864C — Career Exploration—Unit I—4-H Project Leaders' Guide
- 3C 1040 — Leaders' Guide for Demonstrations and Illustrated Talks

Record Books

- No. 3RB 24 — Secretary's Record Book
- 3RB 30 — 4-H Leadership Project for Senior Members

- 3RB 51 — Photography II
3RB 52 — Photography III

GENERAL

Publications

- No. 3P 51 — Drownproofing Can Save Your Life
3P 52 — Lawn Mower Safety
3P 178 — Safety with Firearms
3P 201 — Water Safety
3P 203 — Fire Prevention
3P 233 — Keep Christmas Merry
3P 316 — How To Make Picnic Tables
3P 512 — How To Save on Your Electric Bill
3P 555 — So—You Are Buying A Farm

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